REMARKS/ARGUMENTS

Claims 1-33 were originally presented.

Claims 1-4, 6, 11, 13, 22, 25, 28-29 and 32 are currently amended.

Claims 5, 9, 16, 23-24, and 30-31 are canceled without prejudice.

Claims 4 and 32 are rejected under 35 H.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

Claims 1-4, 6-8, 10-15, 17-22, 25-29, and 32-33 are rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,725,022 to Clayton et al. (hereinafter "Clayton") in view of Applicant's own admission as to prior art in the present specification.

Claims 1-4, 6-8, 10-15, 17-22, 25-29 and 32-33 remain in this application.

In view of the following remarks, Applicant respectfully requests reconsideration of the rejected claims and allowance of the subject application.

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<u>Telephone Conversation with Examiner</u>

Applicant wishes to thank the Examiner for the telephonic conversation on August 3, 2005. Applicant particularly appreciates the Examiner's preliminary indication of the novel and nonobvious nature of the functionality of the SRC button (element 48 in FIG. 1) in selecting between a first list of primary audio control bands and a second list of conditional audio control bands.

35 U.S.C. §112 second paragraph

Claims 4 and 32

Claims 4 and 32 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The Office asserts that claims 4 and 32 contain typographical errors in their claim dependency. Applicant has amended claims 4 and 32 to correct their dependency, thus vitiating this rejection.

35 U.S.C. \$103(a)

Claims 1-4, 6-8, 10-15, 17-22, 25-29 and 32-33

Claims 1-4, 6-8, 10-15, 17-22, 25-29 and 32-33 are rejected under 35 U.S.C. §103(a) as being unpatentable over Clayton in view of Applicant's own admission as to prior art in the present specification. Applicant respectfully traverses the rejection.

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Amended independent claim 1 recites:

An in-vehicle audio browser comprising: a first set of buttons configured to select a preset

item;

a second button configured to select hetween a first list of items and a second list of items associated with the audio browser, wherein the first list comprises a first plurality of hands including primary audio control bands and the second list comprises a second plurality of bands including conditional audio control bands;

a third button configured to cycle through and select a desired band from the list of items selected by the second button; and

a fourth button configured to activate a function that varies depending on the selected band.

One intention of one exemplary implementation of the subject application is to amoliorate several problems found in the prior art. For example, as more functions are added to car stereos (or other vehicle computer systems), it may be necessary to add additional buttons to the car stereo to support the new functions. It is important, however, to minimize the number of changes to the current car stereo model to allow the user the easiest adoption path for the new functionality and minimize the negative effects of pulting more secondary activities into the car environment. Adding a significant number of new buttons to support the new car stereo functions may distract the driver from the primary task of driving the vehicle. Therefore it is important to provide a usability model that is familiar to the user of the car stereo to minimize distractions while driving the vehicle.

The combination of Clayton and the Applicant's own admission as to prior art in the present specification fails to teach or suggest the apparatus of claim 1. In particular, the combination fails to teach or suggest "a second button configured to

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select between a first list of items and a second list of items associated with the audio browser, wherein the first list comprises a first plurality of bands including primary audio control bands and the second list comprises a second plurality of bands including conditional audio control bands".

Instead, Clayton teaches a screen displaying a vertical list of all possible audio and information channels, including music, talk, TV audio, recorded audio, personalized directory services and information services. (Column 9, lines 17-26; and FIG. 2). Audio broadcasts are not organized by the hand or frequency of the station. (Column 6, lines 8-11). The available audio and information channels may be navigated through the use of four channel selector buttons. (Column 9, lines 14-18).

For example, in the instance a user wishes to listen to rock music from a radio station, the up and down channel selector buttons may used to go up and down the vertical list of all possible channels. (Column 9, lines 30-35). Once the "music" selection is encountered, and highlighted, the user may press a forward channel selector button. (Column 9, lines 30-33). This will key the display to render another vertical list presenting all of the subcategories of content available in the "music" category, such as "blues", "dance", "talk" and "sports". (Column 9, lines 35-40). In total, more than 30 different categories can be displayed. (Column 9, lines 36-39). In like fashion, the user can navigate through this vertical list using the up and down channel selector buttons in order to highlight a desired genre, such as "rock", which can be selected by pressing the forward channel selector button. (Column 9, lines 45-47). The result will be the presentation of a vertical listing of possible station frequencies which the user can

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navigate using the up and down channel selector buttons, with each station's audio content being played whenever the station is highlighted. (Column 9, times 47-51).

Thus, according to Clayton, in order to find a single rock radio station, a user must navigate through 4 vertical lists containing as many as 30 or more items. As a result, Clayton represents the very prior art that Applicant sought to overcome, since the use of the audio device taught in Clayton may take so much effort as to distract the driver from the primary task of driving the vehicle. Moreover, since Clayton involves a new layout -- as well as the enhanced use of a video display -- the user must learn a whole new system apart from the traditional controls used in conventional car audio systems.

Additionally, since Clayton relies on a long vertical list of all possible audio and information channels, Clayton teaches away from "a second button configured to select between a first list of items and a second list of items associated with the audio browser, wherein the first list comprises a first plurality of bands including primary audio control bands and the second list comprises a second plurality of bands including conditional audio control bands" as recited in claim 1

Applicant's own admission as to prior art in the present specification offers no missing teachings. Rather, the prior art presented in the specification of the subject application is limited to existing car stereo systems in which a particular band must be chosen from multiple available bands, such as AM, FM1, FM2, and CD, where the selected band represents the operating state of the car stereo. (Page 1, lines 7-10). Essentially, all of the available bands are presented to a user in a linear listing, representing the same organization and presentation as is taught in Clayton.

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The differences between the in-vehicle audio browser recited in claim 1 and the apparatus taught by the combination of Clayton and Applicant's own admission as to prior art in the present specification are pronounced, since by using the second button recited in claim 1, a user may break the list of all possible audio and information channels roughly in half. Moreover, since the lists are conveniently grouped into primary audio control bands and conditional audio control bands, at a glance the user can quickly locate the list having a hand desired by the user.

Moreover, the audio browser recited in claim 1 may be constructed to resemble a conventional car stereo in appearance and function. As such, users can be spared the adoption costs of learning a whole new way of using an audio browser, such as would be encountered in switching over to the apparatus taught by Clayton.

In rejecting claim 1, the Office relies on FIG 2; Column 9, lines 1-51; Column 10, lines 26-26; and Column 5, line 67 - Column 6, line 13 of Clayton. (Office Action, Page 2-3). The Office concedes, however, that Clayton fails to teach a "third button configured to select between a first list of items and a second list of items associated with the audio browser". (Office Action, Page 3). The Office relies on the specification of the subject application at pages 1-2 as teaching this missing element. (Office Action, Page 3). Applicant respectfully submits that this reasoning is flawed.

As discussed in more detail above, both Clayton and Applicant's own admission as to prior art in the present specification teach presenting a user with a linear listing of all of the bands available in a vehicle entertainment system. This is markedly less efficient than using "a second button configured to select between

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a first list of items and a second list of items associated with the audio browser, wherein the first list comprises a first plurality of bands including primary audio control bands and the second list comprises a second plurality of bands including conditional audio control bands" as recited in claim 1. A linear list, or a plurality thereof such as taught in Clayton, requires a user to spend an inordinate amount of time navigating through items in order to progress towards a desired band. During this process, the driver must divert precious attention from the task of driving. In contrast, the second button of claim 1 drastically reduces the time needed to find a desired band by enabling the user to toggle between two conveniently organized groups of bands.

Accordingly, a combination of Clayton and Applicant's own admissions as to prior art in the present specification fails to disclose, teach, or suggest the invehicle audio browser of claim 1. Applicant respectfully requests that the §103(a) rejection of claim 1 be withdrawn.

Dependant claims 2-4, 6-8, and 10-12 are allowable at the least by virtue of their dependency on base claim 1, as well as for the additional elements they contain. Applicant respectfully requests that the §103(a) rejection of claims 2-4, 6-8, and 10-12 be withdrawn.

Amended independent claim 13 recites:

An in-vehicle audio browser comprising:

a first button configured to select between a set of primary audio control bands and a set of conditional audio control bands;

a second button configured to select a band from the set of bands selected by the second button; and

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a third set of buttons configured to select a preset item, wherein the preset item is dependant on the selected band.

The combination of Clayton and the Applicant's own admission as to prior art in the present specification fails to teach or suggest the apparatus of claim 13. In particular, the combination fails to teach or suggest "a first button configured to select between a set of primary audio control bands and a set of conditional audio control bands".

Instead, as discussed in more detail above, according to Clayton, selecting a single item such as a rock radio station, may involve navigating through 4 vertical lists containing as many as 30 or more items. Consequently, Clayton represents the very prior art that Applicant sought to overcome, since the use of the audio device taught in Clayton takes so much effort as to distract the driver from the primary task of driving the vehicle. Moreover, since Clayton involves a new layout -- as well as the enhanced use of a video display -- the user must learn a whole new system apart from the traditional controls used in conventional car audio systems.

Applicant's own admission as to prior art in the present specification offers no missing teachings. Rather, the prior art presented in the specification of the subject application is limited to existing car stereo systems in which a particular hand must be chosen from multiple available bands, such as AM, FM1, FM2, and CD, where the selected band represents the operating state of the car stereo. (Page 1, lines 7-10). Essentially, all of the available bands are presented to a user in a linear listing, representing the same organization and presentation as is taught in Clayton.

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The differences between the in-vehicle audio browser recited in claim 13 and the apparatus taught by the combination of Clayton and Applicant's own admission as to prior art in the present specification are pronounced, since by using the first button recited in claim 13, a user may break the list of all possible audio control bands roughly in half. Moreover, since the sets recited in claim 13 are conveniently grouped into primary audio control bands and conditional audio control bands, at a glance the user can quickly locate the set having a band desired by the user.

Morcover, the audio browser recited in claim 13 may be constructed to resemble a conventional car stereo in appearance and function. As such, users can be spared the adoption costs of learning a whole new way of using an audio browser, such as would be encountered in switching over to the apparatus taught by Clayton.

In rejecting claim 13, the Office relies on the some portions of Clayton and Applicant's own admission as to prior art in the present specification as cited in its rejection of claim 13. (Office Action, Page 5). Applicant respectfully submits that this reasoning is flawed.

As discussed in more detail above, both Clayton and Applicant's own admission as to prior art in the present specification teach presenting a user with a linear listing of all of the bands available in a vehicle entertainment system. This is markedly less efficient than using "a first button configured to select between a set of primary audio control bands and a set of conditional audio control hands" as recited in claim 13. A linear list, or a plurality thereof such as taught in Clayton, requires a user to spend an inordinate amount of time navigating through list elements in order to progress towards a desired band. During this process, the

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driver must divert precious attention from the task of driving. In contrast, the first button of claim 13 drastically reduces the time needed to find a desired band by enabling the user to toggle between two conveniently organized sets of bands.

Accordingly, a combination of Clayton and Applicant's own admissions as to prior art in the present specification fails to disclose, teach, or suggest the invehicle audio browser of claim 13. Applicant respectfully requests that the §103(a) rejection of claim 13 be withdrawn.

Dependant claims 14-15, and 17-18 are allowable at the least by virtue of their dependency on base claim 13, as well as for the additional elements they contain. Applicant respectfully requests that the §103(a) rejection of claims 14-15, and 17-18 be withdrawn.

Independent claim 19 recites:

A user interface for an in-vehicle audio browser, the user interface comprising:

a source button to select between a set of primary audio control bands and a set of conditional audio control bands;

a band button to select a band from the selected set of audio control bands; and

a display device compled to the band button for displaying the band currently selected by the band button.

The combination of Clayton and the Applicant's own admission as to prior art in the present specification fails to teach or suggest the user interface of claim 19. In particular, the combination fails to teach or suggest "a source button to select between a set of primary audio control bands and a set of conditional audio control bands".

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Instead, as discussed in more detail above, according to Clayton, selecting a single item such as a rock radio station, may involve navigating through 4 vertical lists containing as many as 30 or more items. Consequently, Clayton represents the very prior art that Applicant sought to overcome, since the use of the audio device taught in Clayton takes so much effort as to distract the driver from the primary task of driving the vehicle. Moreover, since Clayton involves a new layout — as well as the enhanced use of a video display — the user must learn a whole new system apart from the traditional controls used in conventional car audio systems.

Applicant's own admission as to prior art in the present specification offers no missing teachings. Rather, the prior art presented in the specification of the subject application is limited to existing car stereo systems in which a particular band must be chosen from multiple available bands, such as AM, FM1, FM2, and CD, where the selected band represents the operating state of the car stereo. (Page 1, lines 7-10). Essentially, all of the available bands are presented to a user in a linear listing, representing the same organization and presentation as is taught in Clayton.

The differences between the user interface recited in claim 19 and the apparatus taught by the combination of Clayton and Applicant's own admission as to prior art in the present specification are pronounced, since by using the source button recited in claim 19, a user may break the list of all possible audio control hands roughly in half. Moreover, since the sets are conveniently grouped into primary audio control bands and conditional audio control bands, at a glance the user can quickly locate the set having a band desired by the user.

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Additionally, the user interface recited in claim 19 may be constructed to resemble a conventional car stereo in appearance and function. As such, users can he spared the adoption costs of learning a whole new way of using an audio browser, such as would be encountered in switching over to the apparatus taught by Clayton.

The Office does not state with specificity the passages it relied on in Clayton and the Applicant's own admission as to prior art in the present specification in rejecting claim 19. In good faith, Applicant infers that these passages are the same as those relied on above in the rejection of claims 1 and 13.

As discussed in more detail above, both Clayton and Applicant's own admission as to prior art in the present specification teach presenting a user with a linear listing of all of the bands available in a vehicle entertainment system. This is markedly less efficient than using "a source button to select between a set of primary audio control bands and a set of conditional audio control bands" as recited in claim 19. A linear list, or a plurality thereof such as taught in Clayton, requires a user to spend an inordinate amount of time navigating through list elements in order to progress towards a desired band. During this process, the driver must divert precious attention from the task of driving. In contrast, the source button of claim 19 drastically reduces the time needed to find a desired band by enabling the user to toggle between two conveniently organized sets of bands.

Accordingly, a combination of Clayton and Applicant's own admissions as to prior art in the present specification fails to disclose, teach, or suggest the user interface of claim 19. Applicant respectfully requests that the §103(a) rejection of claim 19 be withdrawn.

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Dependent claims 20-22, and 25 are allowable at the least by virtue of their dependency on base claim 19, as well as for the additional elements they contain. Applicant respectfully requests that the §103(a) rejection of claims 20 22, and 25 be withdrawn.

Independent claim 26 recites:

One or more computer-readable media having stored thereon a computer program that, when executed by one or more processors, causes the one or more processors to:

display a currently selected car radio band, wherein the car radio supports a primary audio control band and a conditional audio control band;

changing the currently selected car radio band in response to activation of a first car radio button; and

moving through a list of items associated with the currently selected car radio band in response to activation of a second car radio button.

The combination of Clayton and the Applicant's own admission as to prior art in the present specification fails to teach or suggest the one or more computerreadable media of claim 26. In particular, the combination fails to teach or suggest "display a currently selected car radio hand, wherein the car radio supports a primary audio control band and a conditional audio control band" and "changing the currently selected car radio band in response to activation of a first car radio button".

Instead, as discussed in more detail above, according to Clayton, selecting a single item such as a rock radio station, may involve navigating through 4 vertical lists containing as many as 30 or more items. Consequently, Clayton represents the very prior art that Applicant sought to overcome, since the use of the audio device taught in Clayton takes so much effort as to distract the driver from the

primary task of driving the vehicle. Moreover, since Clayton involves a new layout — as well as the enhanced use of a video display — the user must learn a whole new system apart from the traditional controls used in conventional car audio systems.

Applicant's own admission as to prior art in the present specification offers no missing teachings. Rather, the prior art presented in the specification of the subject application is limited to existing car stereo systems in which a particular band must be chosen from multiple available bands, such as AM, FM1, FM2, and CD, where the selected band represents the operating state of the car stereo. (Page 1, lines 7-10). Essentially, all of the available bands are presented to a user in a linear listing, representing the same organization and presentation as is taught in Clayton.

The differences between the one or more computer-readable media recited in claim 26 and the apparatus taught by the combination of Clayton and Applicant's own admission as to prior art in the present specification are pronounced, since by using the first car radio button recited in claim 26, a user may break the list of all possible audio control bands roughly in half. Moreover, since the audio control bands are conveniently grouped into a primary audio control band and conditional audio control band, at a glance the user can quickly locate the group having a particular band desired by the user.

Additionally, the one or more computer-readable media recited in claim 26 may be used to construct an in vehicle audio browser resembling a conventional car stereo in appearance and function. As such, users can be spared the adoption costs of learning a whole new way of using an audio browser, such as would be encountered in switching over to the apparatus taught by Clayton.

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The Office does not state with specificity the passages it relied on in Clayton and the Applicant's own admission as to prior art in the present specification in rejecting claim 26. In good faith, Applicant infers that these passages are the same as those relied on above in the rejection of claims 1, 13 and 19.

As discussed in more detail above, both Clayton and Applicant's own admission as to prior art in the present specification teach presenting a user with a linear listing of all of the bands available in a vehicle entertainment system. This is markedly less efficient than "display a currently selected car radio band, wherein the car radio supports a primary audio control band and a conditional audio control band" and "changing the currently selected car radio band in response to activation of a first car radio button" as recited in claim 26.

A linear list, or a plurality thereof such as taught in Clayton, requires a user to spend an inordinate amount of time navigating through list elements in order to progress towards a desired band. During this process, the driver must divert precious attention from the task of driving. In contrast, the first car radio button of claim 26 drastically reduces the time needed to find a desired band by enabling the user to toggle between two conveniently organized sets of bands.

Accordingly, a combination of Clayton and Applicant's own admissions as to prior art in the present specification fails to disclose, teach, or suggest the one or more computer-readable media of claim 26. Applicant respectfully requests that the §103(a) rejection of claim 26 be withdrawn.

Dependent claims 27-29, and 32-33 are allowable at the least by virtue of their dependency on base claim 26, as well as for the additional elements they

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contain. Applicant respectfully requests that the §103(a) rejection of claims 27-29, and 32-33 be withdrawn.

CONCLUSION

All pending claims 1-4, 6-8, 10-15, 17-22, 25-29 and 32-33 are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the subject application. If any issues remain that prevent issuance of this application, the Examiner is urged to contact the undersigned attorney before issuing a subsequent Action.

Respectfully Submitted,

Daled: Aug 22, 2005

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